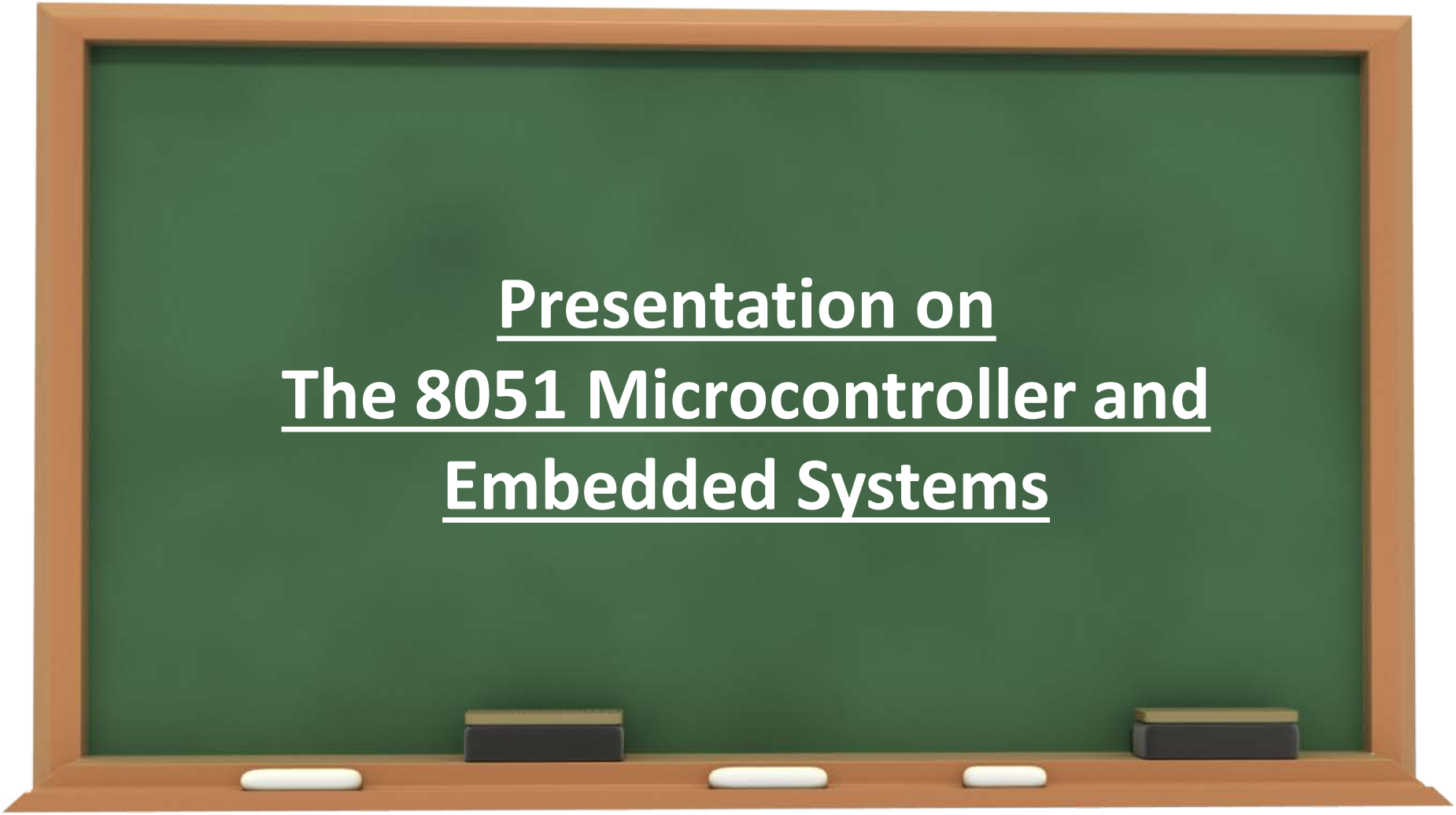

Presentation on
The 8051 Microcontroller and
Embedded Systems

INTRODUCTION TO EMBEDDED SYSTEM

- An embedded system is some combination of computer hardware and software that is specifically designed for a particular function.
- Embedded systems employ the use of a RTOS .

 (Real-Time Operating System).
- RTOS sets the rules during execution of application processes to enable finishing of a process within the assigned time interval and with assigned priority.

APPLICATIONS OF EMBEDDED SYSTEM

- Consumer electronics
- Telecommunications
- Automobiles
- Medical Instruments
- Industrial control equipment
- Defense
- Banking & Finance
- Entertainment
- Office automation

INTRODUCTION TO MICROCONTROLLER

- A microcontroller is a computer-on-a-chip.
- *Micro* suggests that the device is small, and controller tells you that the devise might be used to control objects, processes, or events.
- Another term to describe a microcontroller is *embedded controller,* because the microcontroller and its support circuits are often built into, or embedded in, the devices they control.